```
     FILE 'REGISTRY' ENTERED AT 16:38:17 ON 03 JUL 2007
L1              STRUCTURE UPLOADED
L2              STRUCTURE UPLOADED
L3            0 S L1
L4            0 S L2
L5            9 S L1 SSS FULL
L6            0 S L2 SSS FULL

     FILE 'STNGUIDE' ENTERED AT 16:40:05 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:41:47 ON 03 JUL 2007
L7            7 S L5
L8      1088933 S (NUCLEIC(W)ACID OR DNA OR RNA)
L9         8739 S (SHORT(W)INTERFERING(W)RNA) OR SIRNA
L10          30 S (CLUSTER(W)GLYCOSIDE)
L11       22056 S GLUCOSAMINE
L12      216523 S ENDOCYTOSIS OR (DRUG(W)DELIVERY)

     FILE 'STNGUIDE' ENTERED AT 16:42:36 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:43:43 ON 03 JUL 2007
L13           0 S L8 AND L10 AND L11
L14         702 S L9 AND L12

     FILE 'STNGUIDE' ENTERED AT 16:43:45 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:44:17 ON 03 JUL 2007
L15           0 S L14 AND L10
L16           0 S L8 AND L10

     FILE 'STNGUIDE' ENTERED AT 16:44:19 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:44:48 ON 03 JUL 2007
L17          57 S L8 AND L11 AND L12
   FILE 'HCAPLUS' ENTERED AT 16:45:49 ON 03 JUL 2007
L18          37 S L17 AND (AY<2003 OR PY<2003 OR PRY<2003)
     FILE 'STNGUIDE' ENTERED AT 16:48:59 ON 03 JUL 2007
L20           0 S L19 AND L12FILE HCAPLUS
L21           0 S L19 AND L12
     FILE 'HCAPLUS' ENTERED AT 16:50:14 ON 03 JUL 2007
L22           2 S L19 AND L12
     FILE 'HCAPLUS' ENTERED AT 17:05:07 ON 03 JUL 2007
L23       30590 S DENDRIMER OR GLUCOSAMINE
L24           8 S L14 AND L23
```

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:38:17 ON 03 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUL 2007 HIGHEST RN 940883-34-1
DICTIONARY FILE UPDATES: 2 JUL 2007 HIGHEST RN 940883-34-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

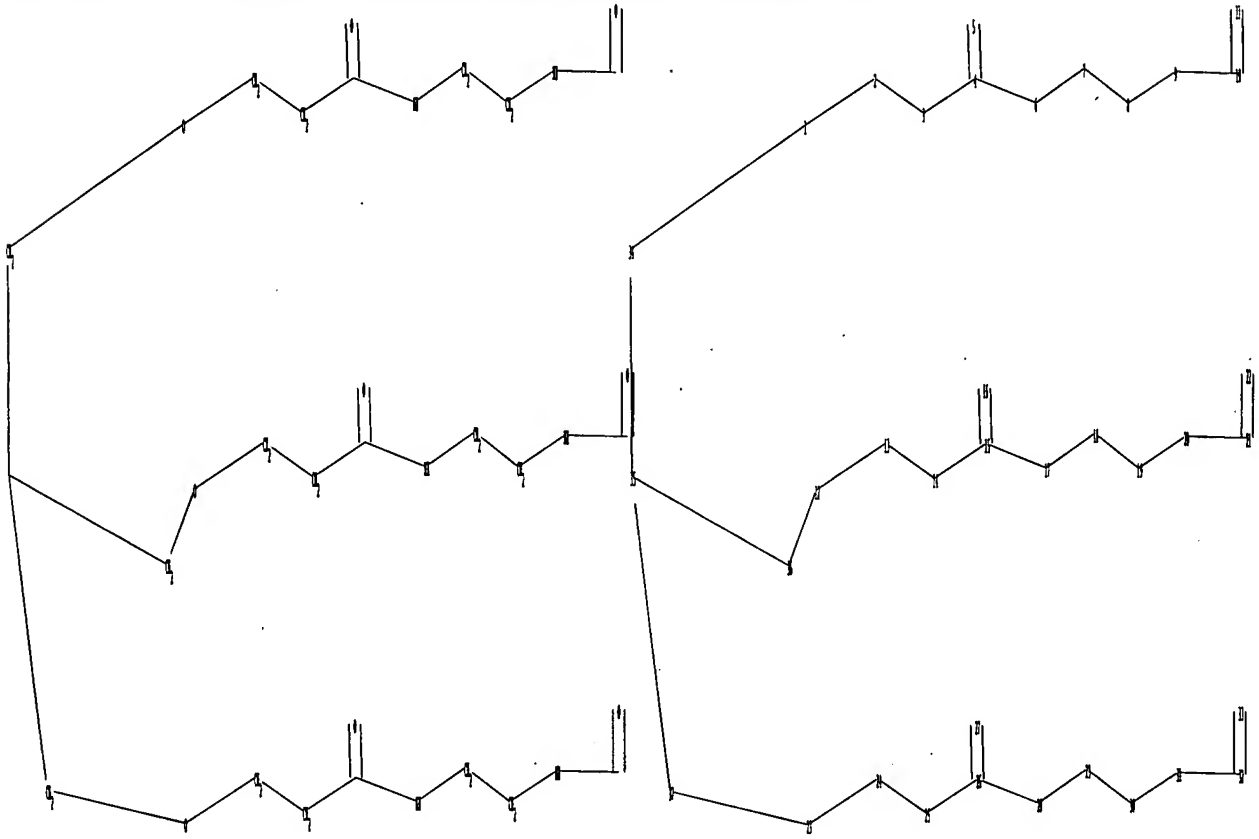
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

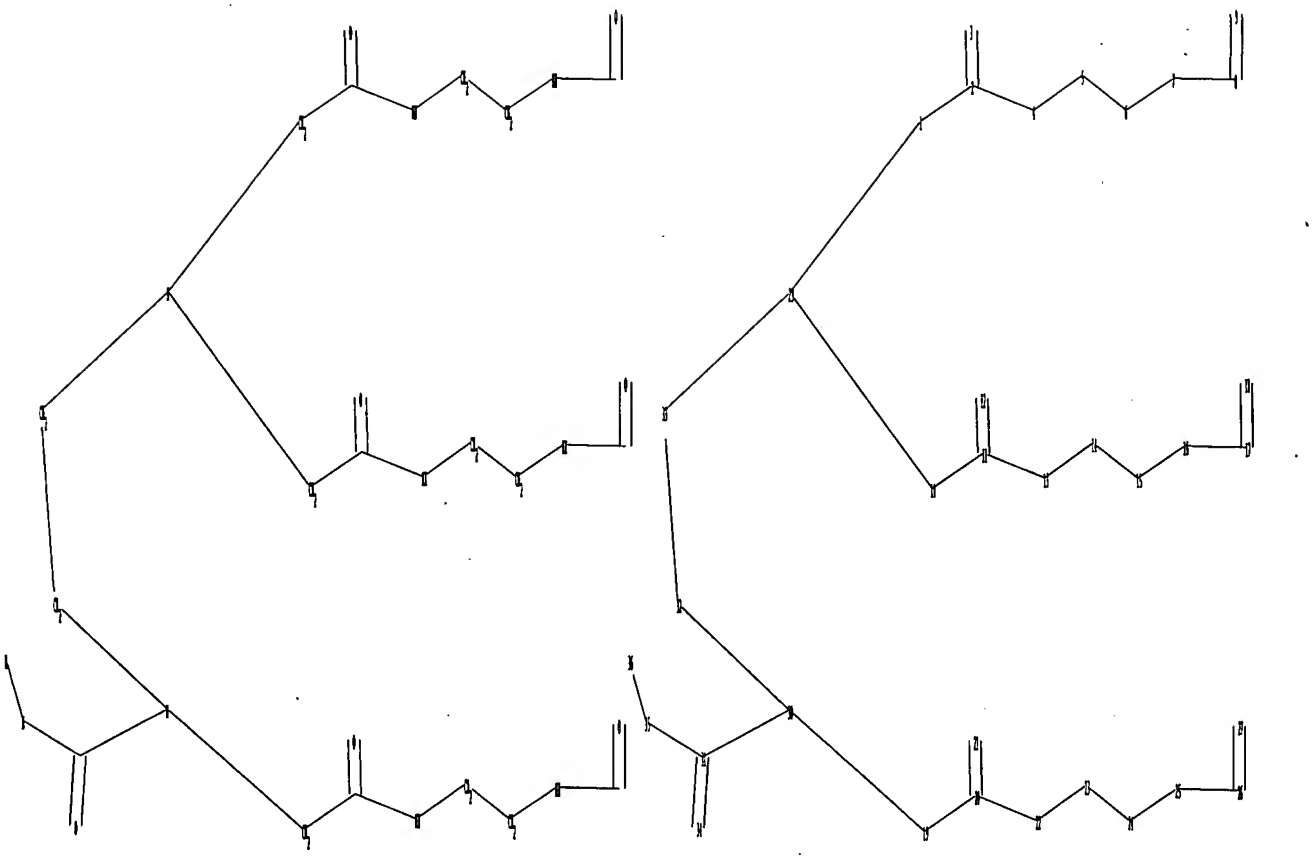
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10780447c.str



```
chain nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23
24  25  26  27  28  29  30  31  32  33  34  35  36  37
chain bonds :
1-2  1-34  2-3  3-4  4-5  4-6  6-7  7-8  8-9  9-10  10-11  12-13  12-36  13-14
14-15
15-16  15-17  17-18  18-19  19-20  20-21  21-22  23-24  23-37  24-25  25-26  26-27
26-28  28-29
29-30  30-31  31-32  32-33  34-35  35-36  35-37
exact/norm bonds :
4-5  4-6  9-10  10-11  15-16  15-17  20-21  21-22  26-27  26-28  31-32  32-33
exact bonds :
1-2  1-34  2-3  3-4  6-7  7-8  8-9  12-13  12-36  13-14  14-15  17-18  18-19  19-20
23-24  23-37  24-25  25-26  28-29  29-30  30-31  34-35  35-36  35-37


G1:H

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS  17:CLASS
18:CLASS  19:CLASS
20:CLASS  21:CLASS  22:CLASS  23:CLASS  24:CLASS  25:CLASS  26:CLASS  27:CLASS
28:CLASS  29:CLASS
30:CLASS  31:CLASS  32:CLASS  33:CLASS  34:CLASS  35:CLASS  36:CLASS  37:CLASS



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=>
Uploading C:\Program Files\Stnexp\Queries\10780447d.str
```



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 29 30 31 32 33 34 35 36
chain bonds :
1-2 1-29 2-3 2-4 4-5 5-6 6-7 7-8 8-9 10-11 10-29 11-12 11-13 13-14
14-15 15-16 16-17 17-18 19-20 19-30 20-21 20-22 22-23 23-24 24-25 25-26
26-27 29-33 30-31
30-32 31-34 31-35 32-33 35-36
exact/norm bonds :
2-3 2-4 7-8 8-9 11-12 11-13 16-17 17-18 20-21 20-22 25-26 26-27 30-31
31-34 31-35
exact bonds :
1-2 1-29 4-5 5-6 6-7 10-11 10-29 13-14 14-15 15-16 19-20 19-30 22-23
23-24 24-25 29-33 30-32 32-33 35-36

G1:H

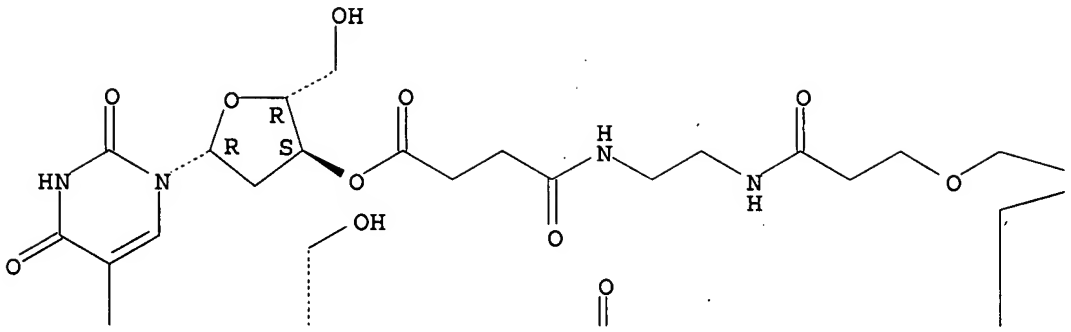
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
29:CLASS 30:CLASS
31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS

L2 STRUCTURE UPLOADED

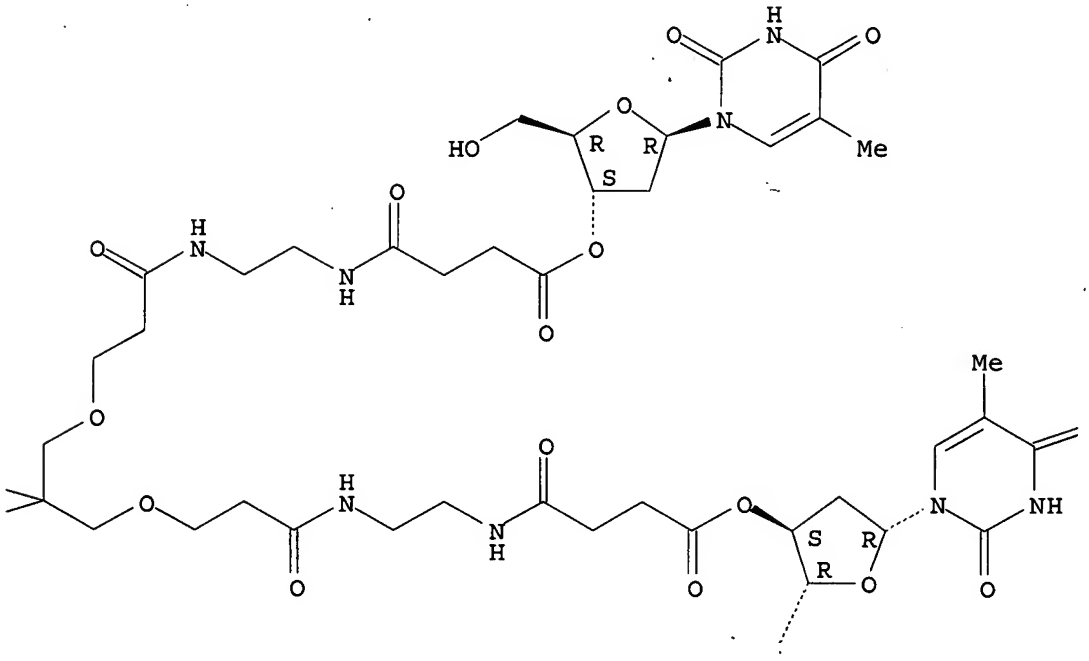
```
=> d l2
L2 HAS NO ANSWERS
L2              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 16:38:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      865 TO ITERATE

100.0% PROCESSED      865 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15536 TO    19064
PROJECTED ANSWERS:               0 TO        0

L3            0 SEA SSS SAM L1

=> s l2
SAMPLE SEARCH INITIATED 16:39:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       33 TO ITERATE

100.0% PROCESSED       33 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          316 TO     1004
PROJECTED ANSWERS:               0 TO        0

L4            0 SEA SSS SAM L2

=> s l1 sss full
FULL SEARCH INITIATED 16:39:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    17294 TO ITERATE

100.0% PROCESSED    17294 ITERATIONS                                  9 ANSWERS
SEARCH TIME: 00.00.01

L5            9 SEA SSS FUL L1

=> s l2 sss full
FULL SEARCH INITIATED 16:39:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      660 TO ITERATE

100.0% PROCESSED      660 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L6            0 SEA SSS FUL L2

=> d l5 scan

L5    9 ANSWERS   REGISTRY  COPYRIGHT 2007 ACS on STN
IN    Thymidine, 3',3'''-[14,14-[[3-[[2-[(3-carboxy-1-
      oxopropyl)amino]ethyl]amino]-3-oxopropoxy]methyl]-4,9,19,24-tetraoxo-12,16-
      dioxa-5,8,20,23-tetraazaheptacosanedioate], 3',3'''-diester with thymidine
      (9CI)
MF    C81 H116 N16 O36
```

Absolute stereochemistry.

PAGE 1-A



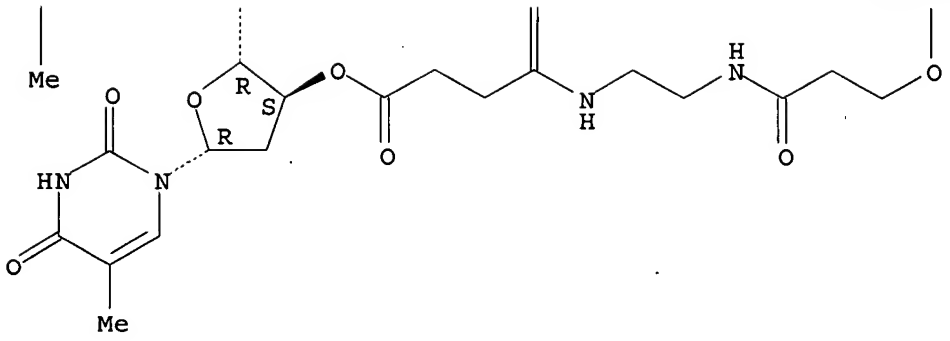
PAGE 1-B



PAGE 1-C

=O

PAGE 2-A



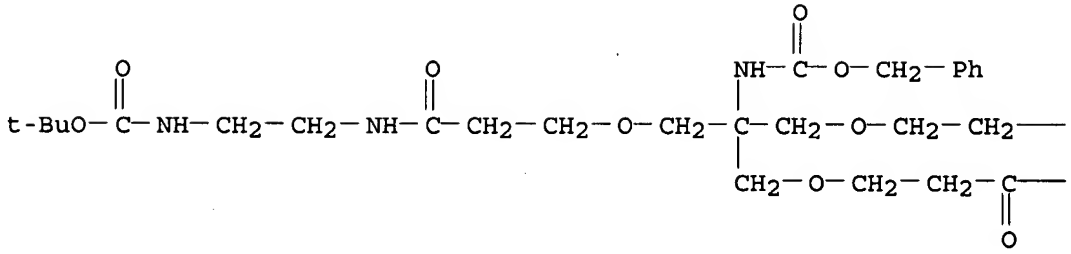
PAGE 2-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

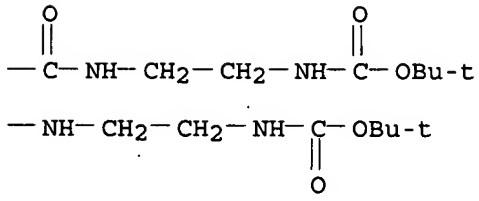
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L5 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 9,13-Dioxa-2,5,17,20-tetraazaheneicosanedioic acid, 11-(12,12-dimethyl-5,10-dioxo-2,11-dioxa-6,9-diazatridec-1-yl)-6,16-dioxo-11-[[(phenylmethoxy)carbonyl]amino]-, bis(1,1-dimethylethyl) ester (9CI)
MF C42 H71 N7 O14

PAGE 1-A



PAGE 1-B

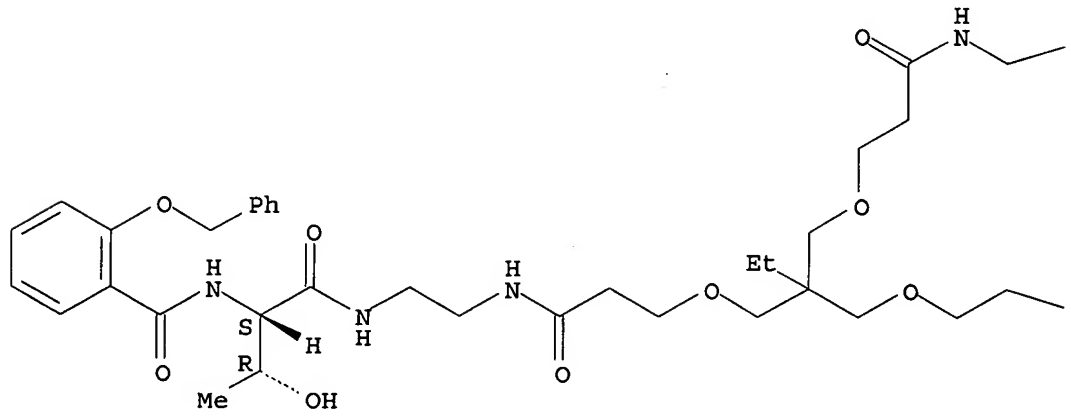


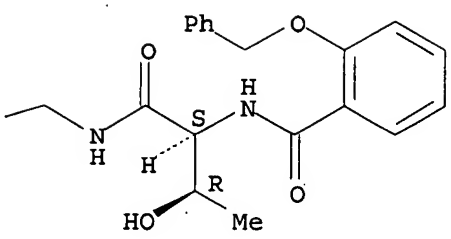
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

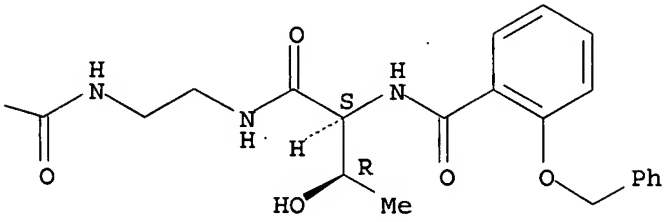
L5 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 4,8-Dioxa-12,15,18-triazanonadecanamide, 6-ethyl-17-[(1R)-1-hydroxyethyl]-6-[(11S)-11-[(1R)-1-hydroxyethyl]-5,10,13-trioxo-2-oxa-6,9,12-triazatridec-1-yl]-N-[2-[[(2S,3R)-3-hydroxy-1-oxo-2-[[2-(phenylmethoxy)benzoyl]amino]butyl]amino]ethyl]-11,16,19-trioxo-19-[2-(phenylmethoxy)phenyl]-, (17S)-
MF C75 H95 N9 O18

Absolute stereochemistry.

PAGE 1-A

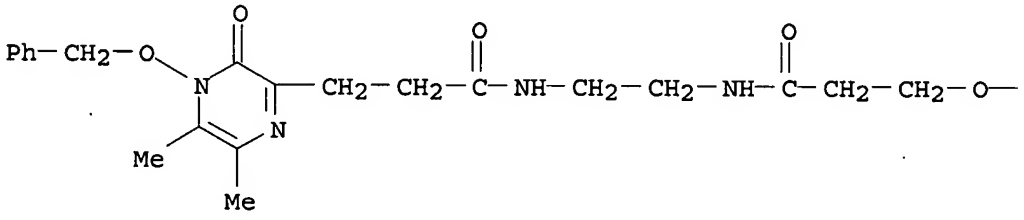




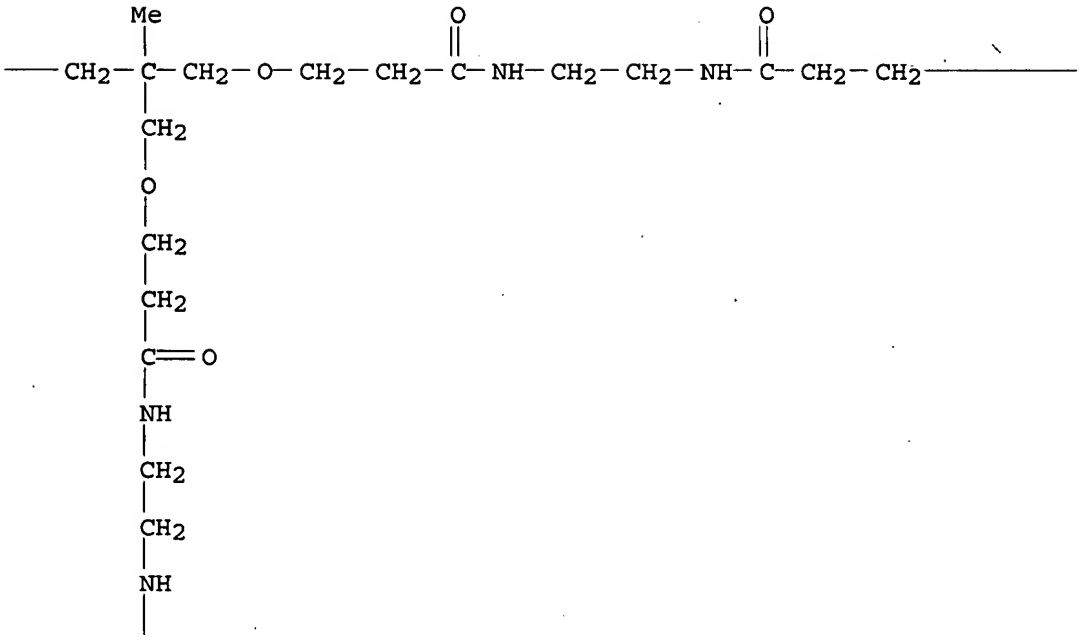


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

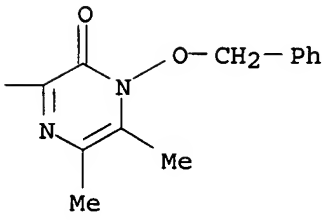
L5 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Pyrazinepropanamide, N,N'-[9-[[3-[[2-[[3-[3,4-dihydro-5,6-dimethyl-3-oxo-4-(phenylmethoxy)pyrazinyl]-1-oxopropyl]amino]ethyl]amino]-3-oxopropoxy]methyl]-9-methyl-4,14-dioxo-7,11-dioxa-3,15-diazaheptadecane-1,17-diyl]bis[3,4-dihydro-5,6-dimethyl-3-oxo-4-(phenylmethoxy)- (9CI)
MF C68 H90 N12 O15



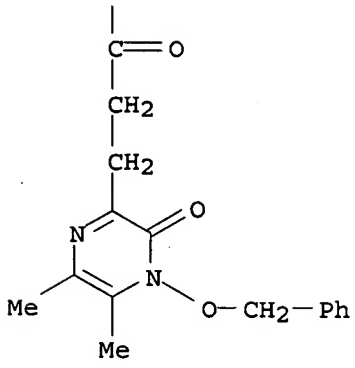
PAGE 1-B



PAGE 1-C



PAGE 2-B

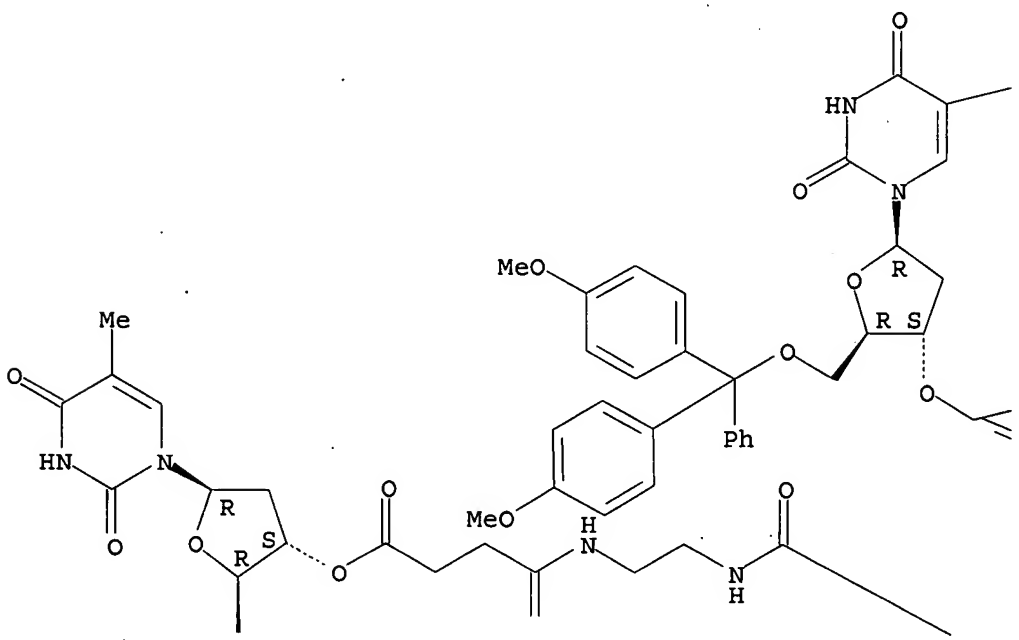


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

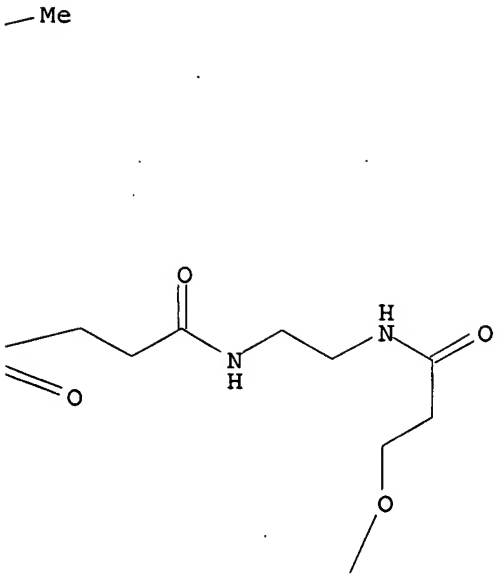
L5 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-, 3',3'''-[14,14-[[3-[[2-[(3-carboxy-1-oxopropyl)amino]ethyl]amino]-3-oxopropoxy]methyl]-4,9,19,24-tetraoxo-12,16-dioxa-5,8,20,23-tetraazaheptacosanedioate], 3',3'''-diester with 5'-O-[bis(4-methoxyphenyl)phenylmethyl]thymidine (9CI)
MF C165 H188 N16 O44

Absolute stereochemistry.

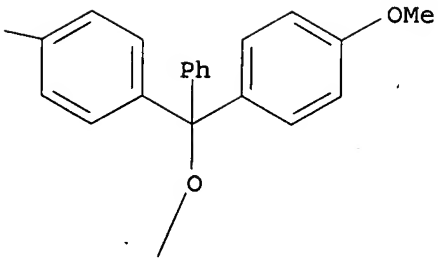
PAGE 1-A



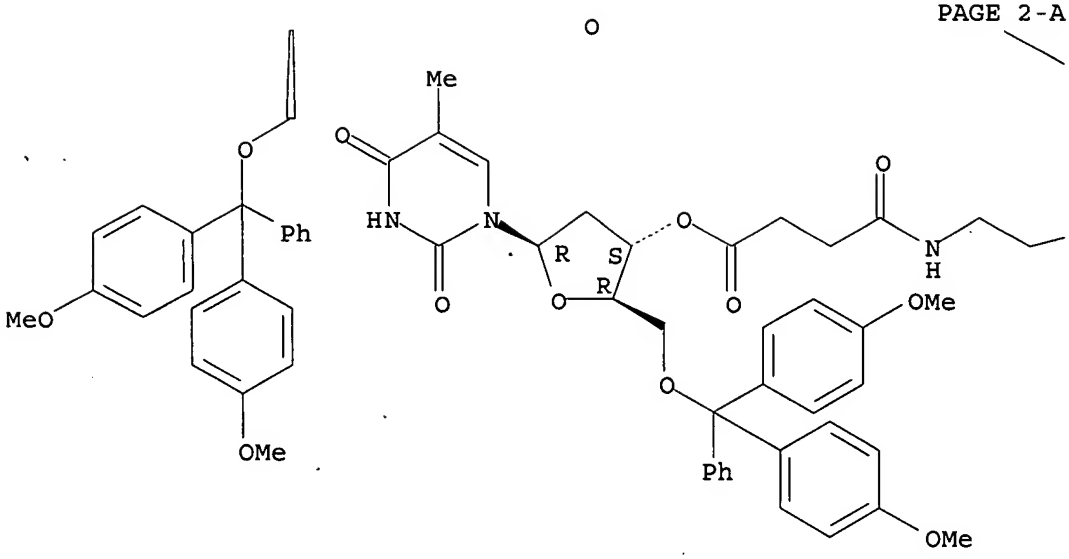
PAGE 1-B



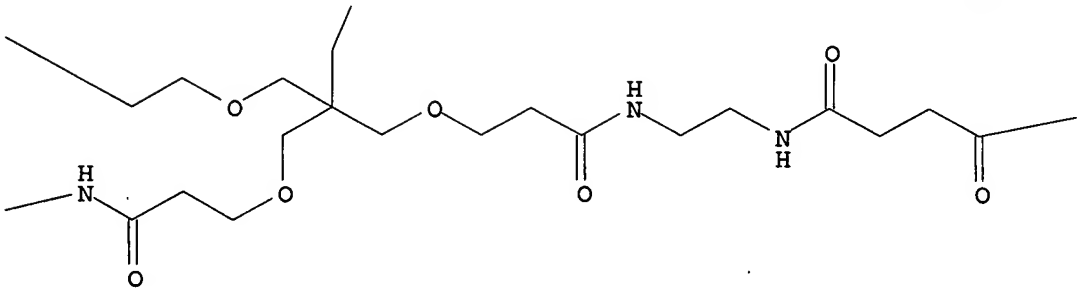
PAGE 1-C



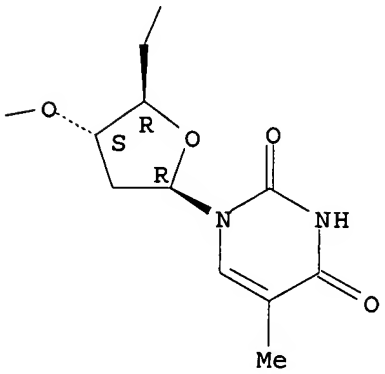
PAGE 2-A



PAGE 2-B



PAGE 2-C



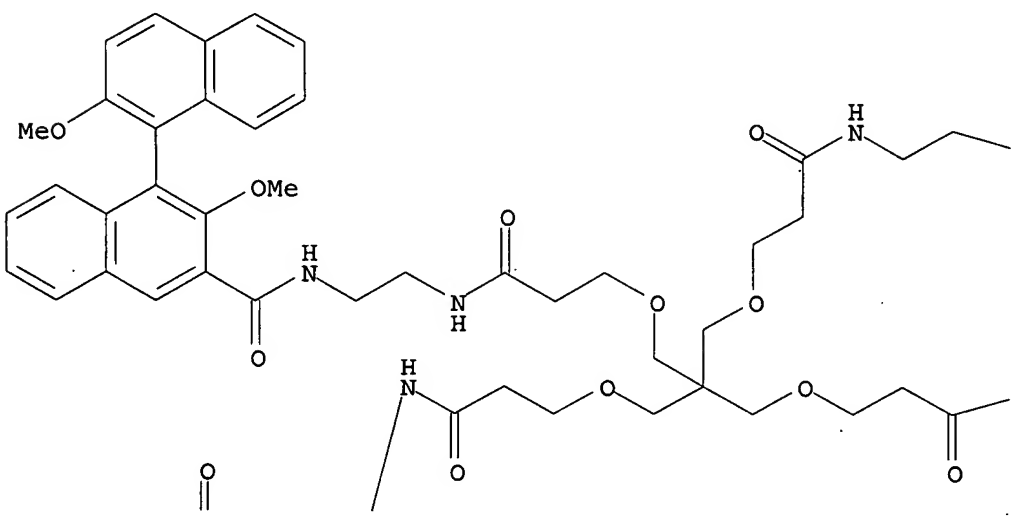
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN [1,1'-Binaphthalene]-3-carboxamide, N,N'-[9,9-bis[[3-[[2-[[[(1S)-2,2'-

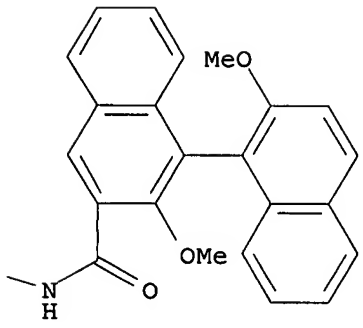
dimethoxy[1,1'-binaphthalen]-3-yl]carbonyl]amino]ethyl]amino]-3-oxopropoxy]methyl]-4,14-dioxo-7,11-dioxa-3,15-diazaheptadecane-1,17-diyl]bis[2,2'-dimethoxy-, (1S,1''S)- (9CI)

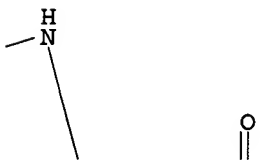
MF C117 H116 N8 O20

PAGE 1-A

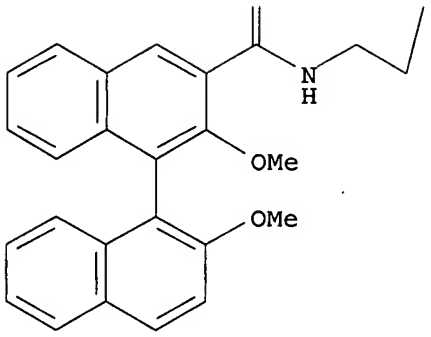


PAGE 1-B

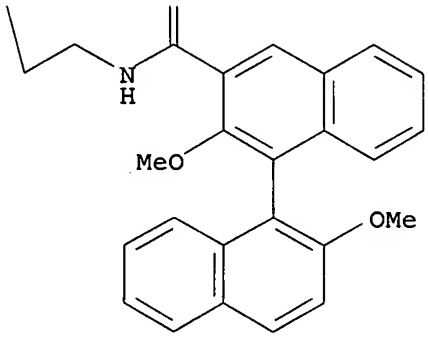




PAGE 2-A



PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	344.65	344.86

FILE 'STNGUIDE' ENTERED AT 16:40:05 ON 03 JUL 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 29, 2007 (20070629/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.18	345.04

FILE 'HCAPLUS' ENTERED AT 16:41:47 ON 03 JUL 2007
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FILE COVERS 1907 - 3 Jul 2007 VOL 147 ISS 2
FILE LAST UPDATED: 2 Jul 2007 (20070702/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l5

L7            7 L5

=> s (nucleic(w)acid or DNA or RNA)

         199653 NUCLEIC
        4395712 ACID
         149730 NUCLEIC(W)ACID
         837825 DNA
         330432 RNA
L8      1088933 (NUCLEIC(W)ACID OR DNA OR RNA)

=> s (short(w)interfering(w)RNA) or siRNA

         516077 SHORT
          47211 INTERFERING
         330432 RNA
            972 SHORT(W)INTERFERING(W)RNA
           8386 SIRNA
L9         8739 (SHORT(W)INTERFERING(W)RNA) OR SIRNA

=> s (cluster(w)glycoside)

         187839 CLUSTER
          37459 GLYCOSIDE
L10          30 (CLUSTER(W)GLYCOSIDE)

=> s glucosamine

L11       22056 GLUCOSAMINE

=> s endocytosis or (drug(w)delivery)

          17567 ENDOCYTOSIS
         739612 DRUG
         277587 DELIVERY
         200049 DRUG(W)DELIVERY
L12      216523 ENDOCYTOSIS OR (DRUG(W)DELIVERY)

=> file stnguide

COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY      SESSION
FULL ESTIMATED COST                            2.60       347.64
```

```
FILE 'STNGUIDE' ENTERED AT 16:42:36 ON 03 JUL 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 29, 2007 (20070629/UP).

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.12     347.76

FILE 'HCAPLUS' ENTERED AT 16:43:43 ON 03 JUL 2007
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FILE COVERS 1907 - 3 Jul 2007  VOL 147 ISS 2
FILE LAST UPDATED: 2 Jul 2007  (20070702/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l8 and l10 and l11

L13           0 L8 AND L10 AND L11

=> s l9 and l12

L14         702 L9 AND L12

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     2.60     350.36

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=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06     350.42

FILE 'HCAPLUS' ENTERED AT 16:44:17 ON 03 JUL 2007
```

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=> s l14 and l10

L15 0 L14 AND L10

=> s l8 and l10

L16 0 L8 AND L10

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	353.02

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	353.08

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=> s l8 and l11 and l12

L17   57 L8 AND L11 AND L12

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	355.68

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	355.74

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=> s l17 and (AY<2003 or PY<2003 or PRY<2003

UNMATCHED LEFT PARENTHESIS 'AND (AY<2003'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL

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                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    2.60      358.34

FILE 'STNGUIDE' ENTERED AT 16:45:40 ON 03 JUL 2007
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=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                0.06     358.40

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=> s l17 and (AY<2003 or PY<2003 or PRY<2003)

       4447329 AY<2003
      22885736 PY<2003
       3925765 PRY<2003
L18          37 L17 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> file stnguide

COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                2.60     361.00

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=> d l18 1-37 ti
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y
```

L18 ANSWER 1 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Topical compositions comprising glycosaminoglycan (GAG)-peptide complexes for the treatment, protection and restoration of skin and connective tissues

L18 ANSWER 2 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Ion-pair delivery system for cosmetic and pharmaceutical compositions

L18 ANSWER 3 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Anti-CD22 antibodies conjugated with cytotoxic drug for treating cancer, carcinoma, sarcoma and B cell lymphoma/leukemia

L18 ANSWER 4 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Pasteurella glycosaminoglycan synthases and method for preparing monodisperse glycosaminoglycans for medical use

L18 ANSWER 5 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Polysaccharide over-producing Staphylococcii with modified icaR gene and ica regulatory element, and methods for treating staphylococcal infections

L18 ANSWER 6 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Pasteurella multocida glycosaminoglycan transferases and their use for polysaccharide synthesis and polymer grafting

L18 ANSWER 7 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Transdermal compositions containing tertiary amides and ion pairs of quaternary ammonium salts and fatty acids

L18 ANSWER 8 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Expression of EPS operon in lactic acid bacteria (Streptococcus macedonicus) produces a polysaccharide for use in infant food products

L18 ANSWER 9 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Composition for cytocompatible, injectable, self-gelling chitosan solutions for encapsulating and delivering live cells or biologically active factors

L18 ANSWER 10 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Production of hexosamines in transgenic plants

L18 ANSWER 11 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Chimeric vaccines comprising stabilized HBcAg and B and/or T cell epitopes for treating chronic hepatitis B

L18 ANSWER 12 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Antimicrobial sulfated polysaccharides that exhibit resistance to lysosomal degradation during kidney filtration and renal passage, compositions, and methods of use

L18 ANSWER 13 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Leishmania antigens for use in the therapy and diagnosis of leishmaniasis

L18 ANSWER 14 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Skin compositions containing fatty acids and quaternary ammonium surfactants

L18 ANSWER 15 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI HSV antigens, polynucleotides and antibodies for diagnosis and treatment of herpes simplex virus infection

L18 ANSWER 16 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Oral dosage form comprising a therapeutic agent and an adverse-effect agent

L18 ANSWER 17 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes, and inhibitor identification methods

L18 ANSWER 18 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Methods and proteoglycans-inducing compositions for the treatment and prevention of smooth muscle cell proliferation

L18 ANSWER 19 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Polymer grafting with polysaccharide synthases for coating biomaterial surfaces

L18 ANSWER 20 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Nucleic acid delivery formulations

L18 ANSWER 21 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Human glucosamine-6-phosphate deaminase and cDNAs and drug screening targeted to its regulation and other therapeutic application for related diseases

L18 ANSWER 22 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Petunia hybrida gene Shooting encoding cytokinin biosynthesis enzyme tRNA-IPT and uses in plant growth regulation and cosmetic preparations

L18 ANSWER 23 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Biodegradable mixed polymeric micelles for drug delivery

L18 ANSWER 24 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Development of a Nonviral Gene Delivery Vehicle for Systemic Application

L18 ANSWER 25 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Clear oil-containing pharmaceutical compositions containing a therapeutic agent

L18 ANSWER 26 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Methods and compositions and systems for determining gene function

L18 ANSWER 27 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Compositions and methods for the diagnosis and treatment of herpes simplex virus infection

L18 ANSWER 28 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Human glucosamine-6-phosphate isomerase 12 and its cDNA and use thereof

L18 ANSWER 29 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Glucosamine and egg for reducing inflammation

L18 ANSWER 30 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Polydisaccharides for regulating hematopoietic differentiation for treatment of leukemia

L18 ANSWER 31 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Procedure for changing the electrical properties of human ocular mucus and providing substitutes for ophthalmic use

L18 ANSWER 32 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Topical compositions containing lecithins and moisturizers for the treatment skin disorders

L18 ANSWER 33 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Biodegradable mixed polymeric micelles for gene delivery

L18 ANSWER 34 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Hydrophobic glycosylamine derivatives, compositions, and methods for their use

L18 ANSWER 35 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Topical compositions containing lignan glycosides and sequestering agents

L18 ANSWER 36 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Topical compositions containing lignan glycosides and sequestering agents

L18 ANSWER 37 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Compositions and methods for targeting gene delivery vehicles using targeting elements covalently bound to gene delivery vehicles through linking agents

=> d l18 20 23 24 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L18 ANSWER 20 OF 37 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Nucleic acid delivery formulations
AB The invention is based on the discovery that injectable and nucleic acid-compatible polymeric compns. and formulations can be structurally designed to regulate nucleic acid activity or gene expression in vivo, for example, by controlling the bioavailability of the nucleic acid via modulation of the biodegradability and crosslink d. of the network formed by the components of the formulation. The polymeric network encases the nucleic acid, not only controlling the release of the DNA, but also providing protection from degradation The invention described herein improves upon prior modes of gene delivery, in that gene expression can be regulated by modulation of a polymeric network formed by combination of at least two water-soluble components capable of reacting with one another. The nucleic acid of interest is incorporated into the network to be released in a sustained manner to achieve level and duration of activity or expression needed.
AN 2002:555628 HCAPLUS <<LOGINID::20070703>>
DN 137:114498
TI Nucleic acid delivery formulations
IN Barman, Shikha P.; Roy, Krishnendu; Hedley, Mary Lynne; Wang, Daqing
PA Zycos Inc., USA
SO PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002057424	A2	20020725	WO 2002-US1379	20020117 <--
	WO 2002057424	A3	20021003		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2435287	A1	20020725	CA 2002-2435287	20020117 <--
	AU 2002245279	A1	20020730	AU 2002-245279	20020117 <--
	EP 1352072	A2	20031015	EP 2002-713428	20020117 <--

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        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004521109         T     20040715    JP 2002-558478          20020117 <--
     US 2004147466         A1    20040729    US 2004-466289          20040315 <--
PRAI US 2001-262219P       P     20010117  <--
     US 2001-270256P       P     20010220  <--
     US 2001-300484P       P     20010622  <--
     WO 2002-US1379        W     20020117  <--

L18  ANSWER 23 OF 37  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Biodegradable mixed polymeric micelles for drug delivery
AB   A biodegradable carrier for delivery of a selected bioactive mol. into a
     targeted host cell contains an amphiphilic polyester-polycation copolymer
     and an amphiphilic polyester-sugar copolymer.  The carrier is particularly
     useful for delivery of a neg. charged bioactive mol. such as a
     nucleic acid.  The invention improves delivery
     efficiency by providing a particulate gene carrier for which the particle
     size and charge d. are easily controlled by various means.  Various kinds
     of ligands and other functional compds. may be also be introduced to the
     carrier.  The carrier may be used for delivering a targeted host cell with
     a bioactive mol.  For example, preparation of a mixed polymeric micelles from
     poly(L-lactic acid)-poly(L-lysine) graft copolymer and poly(L-lactic
     acid)-poly(N-lactosyl-L-lysine) graft copolymer was described.
     Transfection efficiency of mixed polymeric micelles prepared was as good as
     Lipofectin reagent in HepG2 cells in vitro in the absence of serum.
AN   2002:391472  HCAPLUS <<LOGINID::20070703>>
DN   136:406854
TI   Biodegradable mixed polymeric micelles for drug delivery
IN   Choi, Young Kweon; Kim, Jin Seok
PA   Expression Genetics, Inc., USA
SO   PCT Int. Appl., 23 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 3
     PATENT NO.            KIND   DATE        APPLICATION NO.         DATE
     ---------------       ----   --------    --------------------    --------
PI   WO 2002039955          A2     20020523    WO 2001-US43911         20011116 <--
     WO 2002039955          A3     20030116
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 6410057             B1     20020625    US 2000-713904          20001116 <--
     AU 2002039324          A5     20020527    AU 2002-39324           20011116 <--
PRAI US 2000-713904         A      20001116  <--
     US 1997-69551P         P      19971212  <--
     US 1998-209631         A2     19981211  <--
     WO 2001-US43911        W      20011116  <--

L18  ANSWER 24 OF 37  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Development of a Nonviral Gene Delivery Vehicle for Systemic Application
AB   Polycation vehicles used for in vitro gene delivery require alteration for
     successful application in vivo.  Modification of polycations by direct
     grafting of addnl. components, e.g., PEG, either before or after
     DNA complexation, tend to interfere with polymer/DNA
     binding interactions; this is a particular problem for short polycations
     such as linear, β-cyclodextrin-containing polycations (βCDPs).
     Here, a new method of βCDP polyplex (polycation/ DNA
```

composite structures) modification is presented that exploits the ability to form inclusion complexes between cyclodextrins and adamantane. Surface-PEGylated βCDP polyplexes are formed by self-assembly of the polyplexes with adamantane-PEG conjugates. While unmodified polyplexes rapidly aggregate and precipitate in salt solns., the PEGylated βCDP polyplexes are stable at conditions of physiol. salt concentration Addition of targeting ligands to the adamantane-PEG conjugates allows for receptor-mediated delivery; galactosylated βCDP-based particles reveal selective targeting to hepatocytes via the asialoglycoprotein receptor. Galactosylated particles transfect hepatoma cells with 10-fold higher efficiency than glucosylated particles (control), but show no preferential transfection in a cell line lacking the asialoglycoprotein receptor. Thus, surface modification of βCDP-based polyplexes through the use of cyclodextrin/adamantane host/guest interactions endows the particles with properties appropriate for systemic application.

AN 2002:294332 HCAPLUS <<LOGINID::20070703>>
DN 137:52241
TI Development of a Nonviral Gene Delivery Vehicle for Systemic Application
AU Pun, Suzie Hwang; Davis, Mark E.
CS Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA
SO Bioconjugate Chemistry (2002), 13(3), 630-639
CODEN: BCCHES; ISSN: 1043-1802
PB American Chemical Society
DT Journal
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	387.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

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=> s l10 and (PY<2003 or AY<2003 or PRY<2003)

```
      22885736 PY<2003
       4447329 AY<2003
       3925765 PRY<2003
L19          22 L10 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                       2.60     390.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                       0.00      -2.34

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=> d l19 1-22 ti
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L19  ANSWER 1 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Sweet viruses: Artificial carbohydrate-decorated virus particles

L19  ANSWER 2 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   The Cluster Glycoside Effect

L19  ANSWER 3 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Determination of the upper size limit for uptake and processing of ligands
     by the asialoglycoprotein receptor on hepatocytes in vitro and in vivo

L19  ANSWER 4 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   On the meaning of affinity: cluster glycoside effects
     and concanavalin A

L19  ANSWER 5 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Facile solid-phase synthesis of YEE(ah-GalNAc)3, a ligand with known high
     affinity for the asialoglycoprotein receptor

L19  ANSWER 6 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Clustering of mannose ligands using carbohydrates as multivalent cores.

L19  ANSWER 7 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Multivalency as a strategy for carbohydrate-based ligands: the molecular
     basis of the cluster glycoside effect

L19  ANSWER 8 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   A comparison of biological and calorimetric analyses of multivalent
     glycodendrimer ligands for concanavalin A

L19  ANSWER 9 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Carbohydrates tagged with the CCo3(CO)9 cluster

L19  ANSWER 10 OF 22  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   On the Meaning of Affinity: Cluster Glycoside Effects
     and Concanavalin A
```

L19 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Convergent synthesis of fluorescein-labeled lysine-based cluster glycosides

L19 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Cluster glycoside utilized by dendrimer

L19 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Synthetic carbohydrate dendrimers. Synthetic carbohydrate-containing dendrimers

L19 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Facile Synthesis of a High-Affinity Ligand for Mammalian Hepatic Lectin Containing Three Terminal N-Acetylgalactosamine Residues

L19 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Triantennary cluster glycosides, their preparation and their use in treatment of hyperlipidemia.

L19 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Stepwise synthesis of a GalNAc-containing cluster glycoside ligand of the asialoglycoprotein receptor

L19 ANSWER 17 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Observation of Unique Cross-Linked Lattices Between Multiantennary Carbohydrates and Soybean Lectin. Presence of Pseudo-2-fold Axes of Symmetry in Complex Type Carbohydrates

L19 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Binding and precipitating activities of Erythrina lectins with complex type carbohydrates and synthetic cluster glycosides. A comparative study of the lectins from E. corallodendron, E. cristagalli, E. flabelliformis, and E. indica

L19 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Binding and precipitation of lectins from Erythrina indica and Ricinus communis (Agglutinin I) with synthetic cluster glycosides

L19 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Cluster glycosides

L19 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of aryl cluster glycosides by cyclotrimerization of 2-propynyl carbohydrate derivatives

L19 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Binding and endocytosis of cluster glycosides by rabbit hepatocytes. Evidence for a short-circuit pathway that does not lead to degradation

=> s l19 and l12file hcaplus
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
23 CLUSTER
0 GLYCOSIDE
0 (CLUSTER(W)GLYCOSIDE)
0 PY<2003
0 AY<2003
0 PRY<2003
0 L12FILE
1 HCAPLUS
0 L12FILE HCAPLUS
(L12FILE(W)HCAPLUS)

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L20           0 L19 AND L12FILE HCAPLUS

=> s l19 and l12

'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
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             0 GLYCOSIDE
             0 (CLUSTER(W)GLYCOSIDE)
             0 PY<2003
             0 AY<2003
             0 PRY<2003
             0 ENDOCYTOSIS
            36 DRUG
             6 DELIVERY
             2 DRUG(W)DELIVERY
L21          0 L19 AND L12

=> d l7 1-7 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:file stnguide

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n


=> file hcaplus

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.12     400.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    0.00      -2.34

FILE 'HCAPLUS' ENTERED AT 16:50:14 ON 03 JUL 2007
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FILE COVERS 1907 - 3 Jul 2007  VOL 147 ISS 2
FILE LAST UPDATED: 2 Jul 2007  (20070702/ED)

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 substance identification.

=> s l19 and l12

L22           2 L19 AND L12
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=> d l7 1-7 ti abs bib

L7 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Toward Iron Sensors: Bioinspired Tripods Based on Fluorescent Phenol-oxazoline Coordination Sites
AB In the quest for fast throughput metal biosensors, it would be of interest to prepare fluorophoric ligands with surface-adhesive moieties. Biomimetic analogs to microbial siderophores possessing such ligands offer attractive model compds. and new opportunities to meet this challenge. The design, synthesis, and physicochem. characterization of biomimetic analogs of microbial siderophores from Paracoccus denitrificans and from the Vibrio genus are described. The (4S,5S)-2-(2-hydroxyphenyl)-5-methyl-4,5-dihydro-1,3-oxazole-4-carbonyl group (La), noted here as an HPO unit, was selected for its potential dual properties, serving as a selective iron(III) binder and simultaneously as a fluorophore. Three tripodal sym. analogs cis-Lb, cis-Lc, and trans-Lc, which mainly differ in the length of the spacers between the central carbon anchor and the ligating sites, were synthesized. These ferric-carriers were built from a tetrahedral carbon as an anchor, sym. extended by three converging iron-binding chains, each bearing a terminal HPO. The fourth chain could contain a surface-adhesive function (Lc). A combination of absorption and emission spectrophotometry, potentiometry, electrospray mass spectrometry, and electrochem. was used to fully characterize the corresponding ferric complexes and to determine their stability. The quenching mechanism is consistent with an intramol. static process and is more efficient for the analog with longer arms. Detection limits in the low nanogram per mL range, comparable with the best chemosensors based on natural peptide siderophores, have been determined These results clearly demonstrate that these tris(phenol-oxazoline) ligands in a tripodal arrangement firmly bind iron(III). Due to their fluorescent properties, the coordination event can be easily monitored, while the fourth arm is available for surface-adhesive moieties. The tripodal system is therefore an ideal candidate for integration with solid-state materials for the development of chip-based devices and anal. methodologies.
AN 2007:216788 HCAPLUS <<LOGINID::20070703>>
DN 146:457805
TI Toward Iron Sensors: Bioinspired Tripods Based on Fluorescent Phenol-oxazoline Coordination Sites
AU Kikkeri, Raghavendra; Traboulsi, Hassan; Humbert, Nicolas; Gumienna-Kontecka, Elzbieta; Arad-Yellin, Rina; Melman, Galina; Elhabiri, Mourad; Albrecht-Gary, Anne-Marie; Shanzer, Abraham
CS Department of Organic Chemistry, The Weizmann Institute of Science, Rehovot, Israel
SO Inorganic Chemistry (Washington, DC, United States) (2007), 46(7), 2485-2497
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
RE.CNT 136 THERE ARE 136 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Dendrimers as molecular translocators
AB Transport mols. include a dendrimer and a biol. active mol. The dendrimer of such transport mols. includes at least one guanidine group, at least one protonated guanidine group, at least one protected guanidine group, at least one amidine group, at least one protonated amidine group, at least one protected amidine group, at least one ureido group, at least one protonated ureido group, at least one protected ureido group, at least one thiorueido group, at least one protonated thioureido group, or at least one protected thioureido group. The biol. active mol. is bonded to the dendrimer. A method of increasing the bioavailability of a drug includes

bonding the drug to a dendrimer of the invention.
AN 2004:80754 HCAPLUS <<LOGINID::20070703>>
DN 140:146993
TI Dendrimers as molecular translocators
IN Goodman, Murray; Seong, Churl Min; Harms, Guido; Min, Changhee; Choi, Byung Hyune; Chung, Hyun-ho
PA The Regents of the University of California, USA; Lg Life Sciences
SO PCT Int. Appl., 192 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004009666	A2	20040129	WO 2003-US22772	20030718
	WO 2004009666	A3	20040610		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003263793	A1	20040209	AU 2003-263793	20030718
PRAI	US 2002-397319P	P	20020719		
	WO 2003-US22772	W	20030718		

L7 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Dendrimers as molecular translocators
AB Transport mols. include a dendrimer and a biol. active mol. The dendrimer of such transport mols. includes at least one guanidine group, at least one protonated guanidine group, at least one protected guanidine group, at least one amidine group, at least one protonated amidine group, at least one protected amidine group, at least one ureido group, at least one protonated ureido group, at least one protected ureido group, at least one thioureido group, at least one protonated thioureido group, or at least one protected thioureido group. The biol. active mol. is bonded to the dendrimer. A method of increasing the bioavailability of a drug includes bonding the drug to a dendrimer of the invention.
AN 2004:80753 HCAPLUS <<LOGINID::20070703>>
DN 140:146992
TI Dendrimers as molecular translocators
IN Goodman, Murray; Seong, Churl Min; Harms, Guido
PA The Regents of the University of California, USA
SO PCT Int. Appl., 208 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004009665	A2	20040129	WO 2003-US22771	20030718
	WO 2004009665	A3	20040624		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA	2493674	A1	20040129	CA 2003-2493674	20030718
AU	2003254066	A1	20040209	AU 2003-254066	20030718
EP	1545462	A2	20050629	EP 2003-765852	20030718
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US	2006216265	A1	20060928	US 2005-522128	20050119
IN	2005DN00607	A	20070119	IN 2005-DN607	20050216
PRAI US	2002-397319P	P	20020719		
WO	2003-US22771	W	20030718		

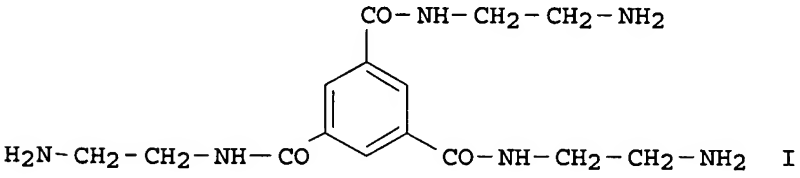
L7 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Dendrimers with inherently axially chiral units
AB We have designed and successfully synthesized dendrimers with axially chiral units in the interior structure. Starting from chiral 2,2'-dimethoxy-1,1'-binaphthalene building blocks and from the four-directional initiator cores the dendritic homochiral and heterochiral oligomers 9-16 were prepared Using the [ϕ]D and Δ.vepsiln. values of monomers 2 and 4, we calculated [ϕ]D and Δ.vepsiln. values for dendrons 11, 13, and dendrimers 9, 10, 15 and 16. Although the observed molar optical rotation [ϕ]D of the dendrimers agrees relatively well with the calculated values, the CD measurements of all the dendrimers in THF and CH2Cl2, except that of heterochiral dendrimer 16 in THF, were significantly different from the calculated values. The intensive hypochromism of the dendrimers (between 37-59% in THF) and the agreement between the calculated and observed Δ.vepsiln. values of the dendrons (between 14 and 6% in THF) led to the assumption that the hypochromic effect is caused by intramol. interactions. From the NMR measurements it was proved that in the homochiral dendrimer, the N-H groups of the amides can form intramol. hydrogen bonds that in CHCl3, with the help of the axially chiral moieties, cause a different conformation of the mol. than in the diastereomeric dendrimer.
AN 2000:246986 HCAPLUS <<LOGINID::20070703>>
DN 133:105420
TI Dendrimers with inherently axially chiral units
AU Lellek, Vit; Stibor, Ivan
CS Department of Organic Chemistry, University of Zurich, Zurich, CH-8057, Switz.
SO Journal of Materials Chemistry (2000), 10(5), 1061-1073
CODEN: JMACEP; ISSN: 0959-9428
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Solution phase biopolymer synthesis of oligodeoxyribonucleotides using multifunctional liquid phase carriers
AB Multifunctional liquid phase carriers (LPCs) and methods of using LPCs for the preparation of biopolymers are provided. The LPCs are highly sym. compds. that possess more than two points of attachment for biopolymer synthesis. The LPCs have the formula Sp(X1)n, where Sp is a highly sym. moiety such that all X1 groups are equivalent X1 is a functional group that is suitable for biopolymer synthesis, including OH, SH, NH2, COOH and the like. Biopolymers that may be produced using the methods provided include oligonucleotides, peptides, protein nucleic acids (PNAs) and oligosaccharides. Analogs of the biopolymers may also be prepared using the methods. Thus decamer d(GACCGGCAGT) was prepared using multifunctional liquid phase carriers.
AN 1999:708779 HCAPLUS <<LOGINID::20070703>>
DN 131:351620
TI Solution phase biopolymer synthesis of oligodeoxyribonucleotides using

multifunctional liquid phase carriers
IN Koster, Hubert; Worl, Ralf
PA USA
SO PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9955718	A2	19991104	WO 1999-US8939	19990426
WO 9955718	A3	19991216		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002016451	A1	20020207	US 1998-67337	19980427
US 7094943	B2	20060822		
AU 9936643	A	19991116	AU 1999-36643	19990426
EP 1073668	A2	20010207	EP 1999-918819	19990426
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002007048	A1	20020117	US 2000-484484	20000118
US 7038103	B2	20060502		
PRAI US 1998-67337	A	19980427		
WO 1999-US8939	W	19990426		

L7 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of new liquid phase carriers for use in large scale oligodeoxyribonucleotide synthesis in solution
GI

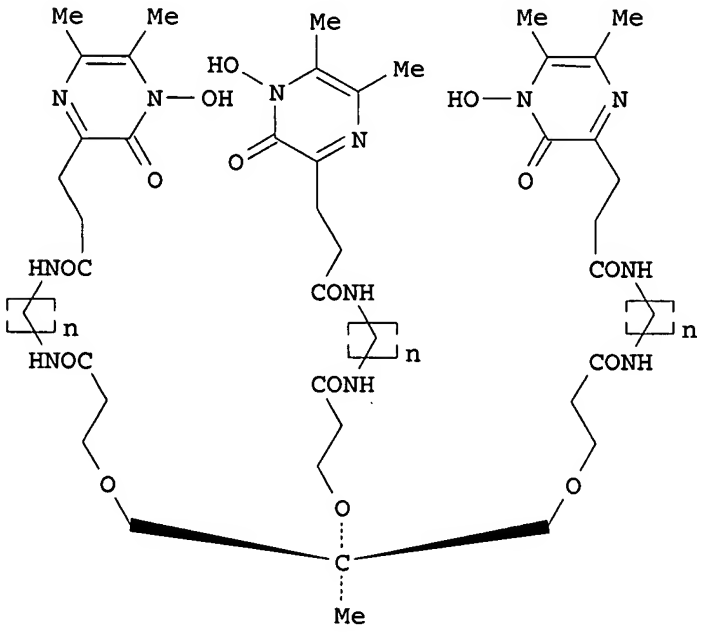


I

AB The synthesis of multifunctional sym. primary amines, e.g. I, and the covalent binding of 5'-O-dimethoxytrityl-deoxynucleoside derivs. to their amino groups is described. Different strategies for dedimethoxytritylation including the use of strong acidic ion exchangers or protic acids and modified silica gels and/or gel permeation chromatog. are developed. The resulting liquid phase carriers are suitable for large scale oligodeoxyribonucleotide synthesis in solution using phosphoramidites and gel permeation chromatog. for fast isolation of intermediates.
AN 1999:176579 HCAPLUS <<LOGINID::20070703>>
DN 130:267701
TI Synthesis of new liquid phase carriers for use in large scale oligodeoxyribonucleotide synthesis in solution
AU Worl, Ralf; Koster, Hubert
CS Faculty of Chemistry, Department of Biochemistry and Molecular Biology, University of Hamburg, Hamburg, D-20146, Germany

SO Tetrahedron (1999), 55(10), 2941-2956
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
TI N-hydroxyamide-containing heterocycles. Part 5. Synthesis of novel hexadentate ligands composed of N-hydroxy-2(1H)-pyrazinone, aliphatic diamine, and 1,1,1-tris(carboxyethoxymethyl)ethane, and properties of their ferric complexes
GI



I

AB Novel hexadentate ligands I (n = 2, 4, 5, 6), containing N-hydroxy-2(1H)-pyrazinone connected to tricarboxylic acid by an aliphatic diamine through amide bonds were synthesized. UV-visible spectra of the 1:1 M mixts. of I and ferric ion in aqueous solution and the mole ratio plot strongly supported the formation of intramol. 1:1 ferric complexes. The relative stability consts. (log K 20.6-21.7) of the complexes were affected by the spacer length in a mol. Further, I showed higher Fe removal efficiency toward human transferrin than naturally occurring siderophore, desferrioxamine B.
AN 1995:956600 HCAPLUS <<LOGINID::20070703>>
DN 124:157320
TI N-hydroxyamide-containing heterocycles. Part 5. Synthesis of novel hexadentate ligands composed of N-hydroxy-2(1H)-pyrazinone, aliphatic diamine, and 1,1,1-tris(carboxyethoxymethyl)ethane, and properties of their ferric complexes
AU Ohkanda, Junko; Katoh, Akira
CS Dep. Industrial Chem., Seikei Univ., Musashino, 180, Japan
SO Tetrahedron (1995), 51(47), 12995-3002
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier

DT Journal
LA English

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.41	422.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-7.80

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 29, 2007 (20070629/UP).

=> d l22 1-2 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L22 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Determination of the upper size limit for uptake and processing of ligands by the asialoglycoprotein receptor on hepatocytes in vitro and in vivo
AB The asialoglycoprotein receptor (ASGPr) on hepatocytes plays a role in the clearance of desialylated proteins from the serum. Although its sugar preference (N-acetylgalactosamine (GalNAc) » galactose) and the effects of ligand valency (tetraantennary > triantennary » diantennary » monoantennary) and sugar spacing (20 Å » 10 Å » 4 Å) are well documented, the effect of particle size on recognition and uptake of ligands by the receptor is poorly defined. In the present study, we assessed the maximum ligand size that still allows effective processing by the ASGPr of mouse hepatocytes in vivo and in vitro. Hereto, we synthesized a novel glycolipid, which possesses a highly hydrophobic steroid moiety for stable incorporation into liposomes, and a triantennary GalNAc3-terminated cluster glycoside with a high nanomolar affinity (2 nM) for the ASGPr. Incorporation of the glycolipid into small (30 nm) [3H]cholesteryl oleate-labeled long circulating liposomes (1-50%, weight/weight) caused a concentration-dependent increase in particle clearance that was liver-specific (reaching 85±7% of the injected dose at 30 min after injection) and mediated by the ASGPr on hepatocytes, as shown by competition studies with asialoorosomucoid in vivo. By using glycolipid-laden liposomes of various sizes between 30 and 90 nm, it was demonstrated that particles with a diameter of >70 nm could no longer be recognized and processed by the ASGPr in vivo. This threshold size for effective uptake was not related to the phys. barrier raised by the fenestrated sinusoidal endothelium, which shields hepatocytes from the circulation, because similar results were obtained by studying the uptake of liposomes on isolated mouse hepatocytes in vitro. From these data we conclude that in addition to the species, valency, and orientation of sugar residues, size is also an important determinant for effective recognition and processing of substrates by the ASGPr. Therefore, these data have important implications for the design of ASGPr-specific carriers that are aimed at hepatocyte-directed delivery of drugs and genes.
AN 2001:763729 HCAPLUS <<LOGINID::20070703>>
DN 137:37497
TI Determination of the upper size limit for uptake and processing of ligands by the asialoglycoprotein receptor on hepatocytes in vitro and in vivo

AU Rensen, Patrick C. N.; Sliedregt, Leo A. J. M.; Ferns, Michiel; Kieviet, Erwin; Van Rossenberg, Sabine M. W.; Van Leeuwen, Steven H.; Van Berkel, Theo J. C.; Biessen, Erik A. L.
CS Division of Biopharmaceutics, Leiden/Amsterdam Center for Drug Research, Sylvius Laboratory, University of Leiden, Leiden, 2300 RA, Neth.
SO Journal of Biological Chemistry (2001), 276(40), 37577-37584
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Binding and endocytosis of cluster glycosides by rabbit hepatocytes. Evidence for a short-circuit pathway that does not lead to degradation
AB Synthetic cluster glycosides containing either 1, 2, or 3 galactosyl or lactosyl residues per ligand were used to test the effect of carbohydrate clustering on binding by the rabbit hepatic galactose/N-acetylgalactosamine-binding lectin using either isolated rabbit hepatocytes or the solubilized, affinity-purified lectin. The tris- and bis-glycosides were superior to the mono-glycosides for inhibition of 125I-labeled asialoorosomucoid binding to rabbit hepatocytes at 0°. The concns. of the tris-glycosides required for 50% inhibition of 125I-labeled asialoorosomucoid binding (4-8 μM) to hepatocytes were 50-100-fold lower than the concns. of the corresponding mono-glycosides required for 50% inhibition (400-500 μM). The isolated lectin, however, did not effectively discriminate between the mono-, bis-, and tris-glycosides, possibly indicating an organizational difference between the lectin the cell membrane and the isolated lectin. When the cluster glycosides were labeled with 125I-labeled tyrosine, it was shown that the tris- and bis-galactosides were bound to the hepatocytes at 37°, and that binding was followed by a step that led to EGTA resistance, probably internalization. The process could be specifically inhibited by the neoglycoprotein β-D-galactopyranosylthioacetamidino-bovine serum albumin with 44 residues of galactose attached or by IgG specific for the hepatic lectin, but not by preimmune IgG. Internalization of the cluster glycosides did not lead to accumulation of ligand inside the cell or to degradation Instead, the ligands were quickly released from the cells.
AN 1982:101464 HCAPLUS <<LOGINID::20070703>>
DN 96:101464
TI Binding and endocytosis of cluster glycosides by rabbit hepatocytes. Evidence for a short-circuit pathway that does not lead to degradation
AU Connolly, Daniel T.; Townsend, R. Reid; Kawaguchi, Kichitaro; Bell, William R.; Lee, Yuan Chuan
CS Dep. Biol., Johns Hopkins Univ., Baltimore, MD, 21218, USA
SO Journal of Biological Chemistry (1982), 257(2), 939-45
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English

=> d hid
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n

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L1 STRUCTURE UPLOADED

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L2              STRUCTURE UPLOADED
L3            0 S L1
L4            0 S L2
L5            9 S L1 SSS FULL
L6            0 S L2 SSS FULL

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     FILE 'HCAPLUS' ENTERED AT 16:41:47 ON 03 JUL 2007
L7            7 S L5
L8      1088933 S (NUCLEIC(W)ACID OR DNA OR RNA)
L9         8739 S (SHORT(W)INTERFERING(W)RNA) OR SIRNA
L10          30 S (CLUSTER(W)GLYCOSIDE)
L11       22056 S GLUCOSAMINE
L12      216523 S ENDOCYTOSIS OR (DRUG(W)DELIVERY)

     FILE 'STNGUIDE' ENTERED AT 16:42:36 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:43:43 ON 03 JUL 2007
L13           0 S L8 AND L10 AND L11
L14         702 S L9 AND L12

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     FILE 'HCAPLUS' ENTERED AT 16:44:17 ON 03 JUL 2007
L15           0 S L14 AND L10
L16           0 S L8 AND L10

     FILE 'STNGUIDE' ENTERED AT 16:44:19 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:44:48 ON 03 JUL 2007
L17          57 S L8 AND L11 AND L12

     FILE 'STNGUIDE' ENTERED AT 16:44:50 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:45:37 ON 03 JUL 2007

     FILE 'STNGUIDE' ENTERED AT 16:45:40 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:45:49 ON 03 JUL 2007
L18          37 S L17 AND (AY<2003 OR PY<2003 OR PRY<2003)

     FILE 'STNGUIDE' ENTERED AT 16:45:52 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:46:05 ON 03 JUL 2007

     FILE 'STNGUIDE' ENTERED AT 16:46:06 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:47:50 ON 03 JUL 2007

     FILE 'STNGUIDE' ENTERED AT 16:47:51 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:48:46 ON 03 JUL 2007
L19          22 S L10 AND (PY<2003 OR AY<2003 OR PRY<2003)

     FILE 'STNGUIDE' ENTERED AT 16:48:49 ON 03 JUL 2007

     FILE 'HCAPLUS' ENTERED AT 16:48:58 ON 03 JUL 2007

     FILE 'STNGUIDE' ENTERED AT 16:48:59 ON 03 JUL 2007
L20           0 S L19 AND L12FILE HCAPLUS
L21           0 S L19 AND L12

     FILE 'HCAPLUS' ENTERED AT 16:50:14 ON 03 JUL 2007
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L22             2 S L19 AND L12

      FILE 'STNGUIDE' ENTERED AT 16:50:18 ON 03 JUL 2007

      FILE 'HCAPLUS' ENTERED AT 16:50:41 ON 03 JUL 2007

      FILE 'STNGUIDE' ENTERED AT 16:50:41 ON 03 JUL 2007

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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06     431.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -9.36

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STN INTERNATIONAL SESSION SUSPENDED AT 16:50:51 ON 03 JUL 2007

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LOGINID:SSPTAEXO1623

PASSWORD:
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SESSION RESUMED IN FILE 'STNGUIDE' AT 17:04:25 ON 03 JUL 2007
FILE 'STNGUIDE' ENTERED AT 17:04:25 ON 03 JUL 2007
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06     431.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -9.36

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06     431.28

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                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -9.36

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=> s dendrimer or glucosamine

	8548	DENDRIMER
	22056	GLUCOSAMINE
L23	30590	DENDRIMER OR GLUCOSAMINE

=> s l14 and l23

L24 8 L14 AND L23

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	433.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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LAST RELOADED: Jun 29, 2007 (20070629/UP).

=> d l24 1-8 ti
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L24 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Double-stranded RNAs and their use for downregulating genes and treating cardiovascular diseases

L24 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Toxicogenomics of drug delivery systems: exploiting delivery system-induced changes in target gene expression to enhance siRNA activity

L24 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Intracellular delivery of oligonucleotide conjugates and dendrimer complexes

L24 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Potential Use of Dendrimer/α-Cyclodextrin Conjugate as a Novel Carrier for Small Interfering RNA (siRNA)

L24 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Small interfering RNA preparation for prevention or treatment of respiratory system diseases, and its screening method

L24 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI The design and exogenous delivery of siRNA for post-transcriptional gene silencing

L24 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Regeneration associated genes (RAGs) polypeptides, nucleic acids, and their use in related neuronal disease treatment and drug screening

L24 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Delivery of siRNAs

=> d l24 2 3 4 6 8 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L24 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Toxicogenomics of drug delivery systems: exploiting delivery system-induced changes in target gene expression to enhance siRNA activity
AB Synthetic siRNAs are typically formulated with drug delivery systems (DDS) that improve cellular uptake for optimal gene silencing activity. Here, we show that two PAMAM dendrimer DDS, differing only in their structural architecture, elicit many different gene expression changes in human cells including opposing effects on the expression of epidermal growth factor receptor (EGFR), a gene targeted for silencing by siRNA. Despite providing similar improvements in siRNA uptake, these two formulations led to a .apprx. 10-fold variation in anti-EGFR siRNA activity. These data show that gene expression changes induced by DDS, sep. from their ability to enhance cell uptake, determine 'apparent' siRNA potency and thus offer the possibility of tailoring delivery system-siRNA combinations for additive or synergistic effects on gene silencing.
AN 2007:168126 HCAPLUS <<LOGINID::20070703>>
DN 146:212445
TI Toxicogenomics of drug delivery systems: exploiting delivery system-induced changes in target gene expression to enhance siRNA activity
AU Hollins, Andrew J.; Omidi, Yadollah; Benter, Ibrahim F.; Akhtar, Saghir
CS Centre for Genome Based therapeutics, Cardiff University School of Pharmacy, Cardiff, CF10 3XF, UK
SO Journal of Drug Targeting (2007), 15(1), 83-88
CODEN: JDTAEH; ISSN: 1061-186X
PB Informa Healthcare
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Intracellular delivery of oligonucleotide conjugates and dendrimer complexes
AB Enhancing the delivery of antisense and siRNA mols. to cells and tissues is a key issue for oligonucleotide therapeutics. Cell-penetrating peptides (CPPs) have the ability to convey linked "cargo" mols. into the cytosol; thus we have explored the use of CPPs as delivery agents for oligonucleotides. We have extensively evaluated CPP-oligonucleotide conjugates, and have recently begun to explore the use of CPP-dendrimer-oligonucleotide complexes. We have found that CPP-antisense oligonucleotide conjugates can be taken up by cells and can effectively modify gene expression in cell culture and in tissues. Although not as potent in cell culture as cationic lipid delivery agents,

CPP-oligonucleotide conjugates offer the advantage of being mols. rather than particles, and may have substantial advantages over particle-based delivery in the in vivo setting.

AN 2007:69727 HCAPLUS <<LOGINID:.:20070703>>
DN 146:235694
TI Intracellular delivery of oligonucleotide conjugates and dendrimer complexes
AU Juliano, R. L.
CS Department of Pharmacology, School of Medicine, University of North Carolina, Chapel Hill, NC, 27599, USA
SO Annals of the New York Academy of Sciences (2006), 1082(Oligonucleotide Therapeutics), 18-26
CODEN: ANYAA9; ISSN: 0077-8923
PB Blackwell Publishing, Inc.
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Potential Use of Dendrimer/α-Cyclodextrin Conjugate as a Novel Carrier for Small Interfering RNA (siRNA)
AB RNA interference (RNAi) is the mechanism of gene silencing-mediated mRNA degradation by small interference RNA (siRNA), which becomes a powerful tool for genetic anal. and novel gene therapy. However, one of the major obstacles for siRNA delivery is the difficulty to cross the biol. membrane due to its hydrophilicity and high mol. weight We evaluated the potential use of the starburst polyamidoamine dendrimer (generation 3) conjugate with α-cyclodextrin (α-CyD) having an average degree of substitution of 2.4 (α-CDE conjugate) as a siRNA carrier for RNAi. The ternary complex composed of pGL2 control vector (pDNA)/pGL2 siRNA/α-CDE conjugate showed higher pGL2 siRNA sequence-specific gene silencing effects without off-target effects than those of com. transfection reagents such as Lipofectamine 2000, TransFast and Lipofectin. These results suggest that α-CDE conjugate has the potential to be a novel carrier for siRNA.
AN 2006:1101503 HCAPLUS <<LOGINID::20070703>>
DN 146:107086
TI Potential Use of Dendrimer/α-Cyclodextrin Conjugate as a Novel Carrier for Small Interfering RNA (siRNA)
AU Tsutsumi, Toshihito; Arima, Hidetoshi; Hirayama, Fumitoshi; Uekama, Kaneto
CS Graduate School of Pharmaceutical Sciences, Kumamoto University, Oe-honmachi, Kumamoto, 862-0973, Japan
SO Journal of Inclusion Phenomena and Macrocyclic Chemistry (2006), 56(1-2), 81-84
CODEN: JIPCF5; ISSN: 1388-3127
PB Springer
DT Journal
LA English
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI The design and exogenous delivery of siRNA for post-transcriptional gene silencing
AB A review. RNA interference (RNAi) is a natural cellular process that effects post-transcriptional gene silencing in eukaryotic systems. Small interfering RNA (siRNA) mols. are the key intermediaries in this process which when exogenously administered can inhibit or "silence" the expression of any given target gene. Thus, siRNA mols. hold great promise as biol. tools and as potential therapeutic agents for targeted inhibition of disease-causing genes. However, key challenges to the effective and widespread use of these polyanionic, macromol. duplexes

of RNA are their appropriate design and efficient delivery to cells in vitro and in vivo. This review highlights the current strategies used in the design of effective siRNA mols. and also summarizes the main strategies being considered for the exogenous delivery of siRNA for both in vitro and in vivo applications.

AN 2004:847064 HCAPLUS <<LOGINID::20070703>>
DN 142:140890
TI The design and exogenous delivery of siRNA for post-transcriptional gene silencing
AU Gilmore, Ian R.; Fox, Stephen P.; Hollins, Andrew J.; Sohail, Muhammad; Akhtar, Saghir
CS Centre for Genome-based Therapeutics, The Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK
SO Journal of Drug Targeting (2004), 12(6), 315-340
CODEN: JDTAEH; ISSN: 1061-186X
PB Taylor & Francis Ltd.
DT Journal; General Review
LA English
RE.CNT 166 THERE ARE 166 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Delivery of siRNAs
AB The present invention provides siRNA delivery methods for use in vivo or in vitro. The delivery methods include conjugation with delivery peptides and mixing with dendrimers.
AN 2004:471006 HCAPLUS <<LOGINID::20070703>>
DN 141:42890
TI Delivery of siRNAs
IN Rana, Tariq M.
PA University of Massachusetts, USA
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004048545	A2	20040610	WO 2003-US37886	20031124
	WO 2004048545	A3	20050421		
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	AU 2003298724	A1	20040618	AU 2003-298724	20031124
	US 2004204377	A1	20041014	US 2003-722176	20031124
	EP 1585756	A2	20051019	EP 2003-796481	20031124
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	WO 2003-US37886	W	20031124		